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PROPOSED CLAIM 1
APPLICATION NO. 08/300,484

1. A method for synthesizing a polynucleotide of a predetermined sequence, comprising:

- (a) providing an initiating substrate comprising a nucleoside having an unprotected 3'-hydroxyl group; and
- (b) reacting said initiating substrate with a nucleoside 5'-triphosphate having its 3' position protected with a removable blocking moiety, wherein said nucleoside 5'-triphosphate is selected according to the order of said predetermined sequence, in the presence of an enzyme that catalyzes the formation of a 5' to 3' phosphodiester linkage between said unprotected 3'-hydroxyl group of said initiating substrate and a 5'-phosphate of said nucleoside 5'-triphosphate, so as to add said nucleoside to said initiating substrate.